

## Claims

1. An antenna array (A) for a radio station (MS) which can be operated in a plurality of frequency  
5 ranges with
  - a plurality of antennas (ANT), wherein
  - different antennas (ANT) are provided for transmission signals and reception signals.
2. The antenna array (A) as claimed in claim 1,  
10 in which different antennas (ANT) are provided for transmission signals and/or reception signals of different frequency ranges.
3. The antenna array (A) as claimed in one of  
15 the previous claims, in which the same antennas (ANT) are provided for transmission signals and/or reception signals of different frequency ranges.
4. The antenna array (A) as claimed in one of  
20 the previous claims, in which
  - no antenna switch (S),
  - no diplexer (D), and
  - no duplexerare assigned to antennas (A).
5. The antenna array (A) as claimed in one of  
25 the previous claims, in which antennas (ANT) are arranged on a support (SUB).
6. The antenna array (A) as claimed in one of  
the previous claims, in which antennas (ANT) are arranged as physically separated.
- 30 7. The antenna array (A) as claimed in one of  
the previous claims, in which at least one of the antennas (A) is implemented as a patch antenna.

8. The antenna array (A) as claimed in one of the previous claims, in which narrowband antennas (A) are used.

9. The antenna array (A) as claimed in one of the previous claims, in which the polarization direction of an antenna for transmission signals differs from the polarization direction of an antenna for reception signals.

10. A radio station (MS) with an antenna array (A) as claimed in one of the previous claims.

add  
A1  
Add  
B1